MECHANISMS OF AGEING AND DEVELOPMENT

VOLUME CONTENTS

Volume 56 (1990)

Aging and endothelial barrier function in culture: effects of chronic exposure	
to fatty acid hydroperoxides and vitamin E	1
Transplantation of pituitary grafts fail to restore immune function and to reconstitute the thymus glands of aged mice	11
Effects of age on myosin and creatine kinase isoforms in left ventricles of	
Fischer 344 rats	23
Comparison of myosin and cratine kinase isoforms in left ventricles of young and senescent Fischer 344 rats after treatment with triiodothyronine G.T. Schuyler and L.R. Yarbrough (Kansas City, KS)	39
Modulation of ovariectomy-related bone loss by parathyroid hormone in rats D.N. Kalu, R. Echon and B.W. Hollis (San Antonio, TX and Charleston, SC)	49
Nuclear proteins and chromatin structure in liver and intestinal epithelial cells of young growing and adult rats	63
Gonadal function in aging rats and its relation to pituitary and mammary pathology	77
Age-related decrease in the number of hemopoietic stem cells and progenitors in senescence accelerated mice	89
Characterization of the subtypes of cell motility in ageing human skin fibroblasts	99
Investigation of the effect of hydrogen peroxide on the chromosomes of young and elderly individuals	107
Binding and uptake of ligands for mannose-specific receptors in liver cells: an electron microscopic study during development and aging in rat L. Dini, A. Lentini and L.C. Devirgiliis (Rome, Italy)	117

Aging and sex-related changes in the biomechanical properties of the rabbit medial collateral ligament	129
Characterization of liver lysosomal enzyme activity in hepatocytes, Kupffer and endothelial cells during aging: effect of dietary restriction G. Ferland, A. Perea, M. Audet and B. Tuchweber (Montreal, Canada)	143
Factors involved in the age-related alteration in the efficiency of the brain	
G. Benzi, O. Pastoris, M. Dossena, F. Marzatico, R.F. Villa and F. Dagani	155
(Pavia, Italy)	
Age-related changes of glycosylation pattern in isolated rat hepatocytes	169
S. Leoni, M. Marino, L.C. DeVirgiliis, S. Spagnuolo, S. Beninati and M.T.	
Mangiantini (Rome, Italy and Bethesda, MD)	
The accumulation of oxidized isoforms of chicken triosephosphate isomerase	
during aging and development	179
K.N. Gracy, C.Y. Tang, K.Ü. Yüksel and R.W. Gracy (Fort Worth, TX)	
Tissue specific expression of mouse transferrin during development and aging	187
F. Yang, W.E. Friedrichs, J.M. Buchanan, D.C. Herbert, F.J. Weaker,	
J.H.Brock and B.H. Bowman (San Antonio, TX and Glasgow, U.K.)	
Diamide-induced cross-linking of the lens water-soluble proteins as a model of	
the early oxidative changes during senile cataract formation	199
M.A. Babizhayev and E.V. Menshikova (Moscow, U.S.S.R.)	
Effect of advanced age on p-aminohippurate-induced inhibition of renal tubu-	
lar secretion in male Fischer 344 rats	209
R.E. Galinsky, D. Eshima, L. Hansen, J. Greene, D. Dillehay and A. Taylor Jr., (Salt Lake City, UT and Atlanta, GA)	
Effect of age on superoxide dismutase, catalase, glutathione reductase, inor-	
ganic peroxides, TBA-reactive material, GSH/GSSG, NADPH/NADP+	
and NADH/NAD+ in Drosophila melanogaster	223
R.S. Sohal, L. Arnold and W.C. Orr (Dallas, TX)	
Effect of protein-free diet on activities and subunits of glutathione S-transfer-	
ase in livers of young and aged female rats	237
MC. Carrillo, M. Nokubo, Y. Sato, S. Kanai, M. Ohta and K. Kitani	
(Tokyo, Japan)	
Determination of levels of biogenic amines and their metabolites and both	
forms of monoamine oxidase in prefrontal cortex of aged rats	253
J.L. Venero, A. Machado and J. Cano (Sevilla, Spain)	265
Aging and ATPase activities in rat jejunum	265
M. Tosco, M.N. Orsenigo, S. Zoppi and A. Faelli (Milan, Italy)	
Alpha ₁ -adrenergic stimulation of inositide hydroylsis in liver of senescent rats S.E. Borst and P.J. Scarpace (Gainesville, FL)	
S.E. Doist and I.J. Scarpace (Gamesvine, I'L)	

Lung antioxidant enzymes, peroxidation, glutathione system and oxygen consumption in catalase inactivated young and old Rana perezi frogs	275
R. Perez-Campo, M. Lopez-Torres, D. Paton, E. Sequeros and G. Barja de	
Quiroga (Madrid, Spain)	
Author Index Volume 56	293
Subject Index Volume 56	295
Contents Volume 56	299

